

# EPPS 6313 : Recitation Session #3

Sep. 19. 2012

## Questions?

- We learned :
- Z-score
- Sampling Distribution of Means
- Confidence Interval
- etc.

## Problem 1

By using the IQ example below, with a population average = 100 and population standard deviation = 15, Calculate the probability that a randomly selected person would have :

1. An IQ of 115 or more
2. An IQ between 100 and 120
3. An IQ between 80 and 90
4. An IQ between 70 and 100

## Problem 2

Suppose, we have IQ data for 1,000 High school students, and our sample mean is 115. Calculate accurate mean of population of the high school students.

## Problem 3

Explain the relation between sample size and confidence interval.

## Problem 4

When variance is 25 and our sample size is 50, find a 90% confidence interval.